

To: Bahrman, Sarah[Bahrman.Sarah@epa.gov]; Walker, Scott[Walker.Scott@epa.gov]; Walter Baker[wbaker@utah.gov]; Patrick Pfaltzgraff - CDPHE[pattick.j.pfaltzgraff@state.co.us]; Erica Gaddis[egaddis@utah.gov]; kbousfield@utah.gov[kbousfield@utah.gov]; Rendon, Laura, NMENV[Laura.Rendon@state.nm.us]; Majure, Allison, NMENV[Allison.Majure@state.nm.us]; Longmire, Patrick[plongmire@lanl.gov]; Longmire, Patrick, NMENV[Patrick.Longmire@state.nm.us]
From: Longmire, Patrick, NMENV
Sent: Mon 8/10/2015 12:31:26 PM
Subject: Field Parameters and Anion Analytical Results

Sarah and Scott

Please provide, if available, field parameters (pH, specific conductance, dissolved oxygen, temperature, turbidity, and oxidation-reduction potential) and analytical results for anions (sulfate, chloride, total carbonate alkalinity, nitrate-N, nitrite-N, phosphate, and bromide), total organic carbon, and dissolved organic carbon) for the surface water samples very recently taken near the source (CC48), in Silverton (A68), along the Animas River (A72), and in Durango (32 St. Bridge). These should include filtered and non-filtered samples for the anions. These data will help in critically evaluating surface-water chemistry near the source and downstream. Sulfate is a critical parameter as it is most likely elevated due to oxidation of metal sulfides associated with the Gold King Mine. Speciation of arsenic(III, V), iron(II, III), manganese(II, IV), mercury (0, I, II) should be considered for transport (adsorption onto river sediments, precipitation of ferric (oxy)hydroxide and manganese oxide, and toxicological assessments. I greatly appreciate receiving all analytical results and field parameters for surface-water samples.

Sincerely,

Patrick

Patrick Longmire, Ph.D.
Aqueous Geochemist

DOE Oversight Bureau-New Mexico Environment Department
1183 Diamond Drive, Suite B
Los Alamos, New Mexico 87544
Office: 505-476-3447
Mobile: 505-699-9015

From: Bahrman, Sarah [Bahrman.Sarah@epa.gov]
Sent: Sunday, August 09, 2015 6:12 PM
To: Longmire, Patrick, NMENV; Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick
Subject: RE: Data tables for August 5-6 posted

Thanks, Pat. My cell # is below if you need anything.

Sarah E. Bahrman | Acting Director, Water Program | U.S. Environmental Protection Agency - Region 8
(p) 303.312.6243 | (c) 303.903.8515 | (f) 877.876.9101

-----Original Message-----

From: Longmire, Patrick, NMENV [mailto:Patrick.Longmire@state.nm.us]
Sent: Sunday, August 09, 2015 6:11 PM
To: Bahrman, Sarah; Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick
Subject: RE: Data tables for August 5-6 posted

Sarah,

Thank you for the information. I can be reached on my mobile telephone at Personal Phone/Ex. 6 if needed regarding groundwater geochemistry and analytical results.

Sincerely,

Pat

Patrick Longmire, Ph.D.
Aqueous Geochemist

DOE Oversight Bureau-New Mexico Environment Department
1183 Diamond Drive, Suite B
Los Alamos, New Mexico 87544
Office: 505-476-3447

From: Bahrman, Sarah [Bahrman.Sarah@epa.gov]
Sent: Sunday, August 09, 2015 5:32 PM
To: Longmire, Patrick, NMENV; Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick
Subject: RE: Data tables for August 5-6 posted

Hi Patrick -
Thanks for forwarding. The lat/longs for the samples collected 8/5 and 8/6 (which I think are contained in what you forwarded) are included in the data tables on the EPA website here:
http://www.epaosc.org/sites/11082/files/PreliminaryData_08092015.pdf

There's also a map in this document:
<http://epaosc.org/sites/11082/files/Data%20Update%2008082015.pdf>

Please let me know if I'm misreading the data you just sent and if you still need more info.
Thanks
Sarah

Sarah E. Bahrman | Acting Director, Water Program | U.S. Environmental Protection Agency - Region 8
(p) 303.312.6243 | (c) 303.903.8515 | (f) 877.876.9101

-----Original Message-----

From: Longmire, Patrick, NMENV [mailto:Patrick.Longmire@state.nm.us]
Sent: Sunday, August 09, 2015 5:26 PM
To: Bahrman, Sarah; Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick
Subject: RE: Data tables for August 5-6 posted

Sarah and others,

Here you go.

Pat

Patrick Longmire, Ph.D.
Aqueous Geochemist

DOE Oversight Bureau-New Mexico Environment Department
1183 Diamond Drive, Suite B
Los Alamos, New Mexico 87544
Office: 505-476-3447

From: Bahrman, Sarah [Bahrman.Sarah@epa.gov]
Sent: Sunday, August 09, 2015 5:23 PM
To: Longmire, Patrick, NMENV; Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick
Subject: RE: Data tables for August 5-6 posted

Hi Patrick -
Would you mind sending those results to me so I can forward to this entire group? I don't have them yet.

I'll work on getting you all a locations map.

Thanks

Sarah E. Bahrman | Acting Director, Water Program | U.S. Environmental Protection Agency - Region 8
(p) 303.312.6243 | (c) 303.903.8515 | (f) 877.876.9101

-----Original Message-----

From: Longmire, Patrick, NMENV [mailto:Patrick.Longmire@state.nm.us]
Sent: Sunday, August 09, 2015 5:17 PM
To: Bahrman, Sarah; Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick, NMENV; Longmire, Patrick
Subject: RE: Data tables for August 5-6 posted

Hi Sarah,

I will need a location map for the surface-water samples very recently collected by the EPA. I have the analytical results for inorganic chemicals (major cations and trace elements) in both filtered and non-filtered samples (upper Animas_Surface Water_AUG 2015_A096 / A-098. The reference number for the analytical results is 8TMS-L, dated 08/07/15. The data were provided by Don Goodrich (EPA Region 8 Analytical Chemistry WAM) and submitted to Paula Schittiel, Superfund, 8 EPR-SR

Sincerely,

Pat

Patrick Longmire, Ph.D.
Aqueous Geochemist

DOE Oversight Bureau-New Mexico Environment Department
1183 Diamond Drive, Suite B
Los Alamos, New Mexico 87544
Office: 505-476-3447

From: Bahrman, Sarah [Bahrman.Sarah@epa.gov]
Sent: Sunday, August 09, 2015 10:21 AM
To: Walter Baker; Patrick Pfaltzgraff - CDPHE; Erica Gaddis; kbousfield@utah.gov; Rendon, Laura, NMENV; Majure, Allison, NMENV; Longmire, Patrick, NMENV
Subject: Data tables for August 5-6 posted

Hi all-

Data tables for the Aug 5-6 data are now posted on the OSC website (same as what you all had previously seen with a different format). More forthcoming.

Thanks